Exercise 1 *Say a store sells various fruits. Let $B(t)$ represent the number of bananas sold on day t and $M(t)$ represent the number of mangos sold on day t. Say $P(t)$ represents the price of bananas on day t and $Q(t)$ represents the price of mangos on day t.*

(a) *Which of the following represents the total number of bananas and mangos sold on day t?*

Multiple Choice:

(i) $(B + M)(t)$ ✓
(ii) $(B - M)(t)$
(iii) $(B \cdot M)(t)$
(iv) $\left(\frac{B}{M}\right)(t)$

(b) *Which of the following represents the total money $R(t)$ made by selling bananas on day t?*

Multiple Choice:

(i) $(B + P)(t)$
(ii) $(B - P)(t)$
(iii) $(B \cdot P)(t)$ ✓
(iv) $\left(\frac{B}{P}\right)(t)$

(c) *Which of the following represents the total money $S(t)$ made by selling mangos on day t?*

Multiple Choice:

(i) $(M + Q)(t)$
(ii) $(Q - M)(t)$
(iii) $(M \cdot Q)(t)$ ✓
(iv) $\left(\frac{M}{Q}\right)(t)$

Which of the following represents the total money made by selling bananas and mangos on day t?

Multiple Choice:

(a) $(R + S)(t)$ ✓

(b) $(R - S)(t)$

(c) $(R \cdot S)(t)$

(d) $\left(\frac{R}{S}\right)(t)$